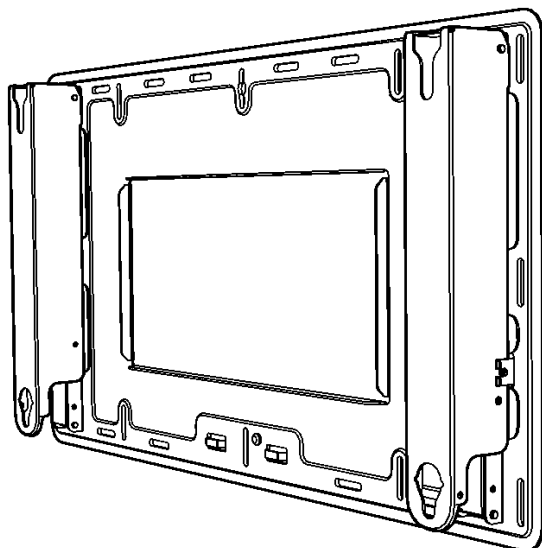


Service Manual

Plasma TV wall-hanging bracket (Vertical mounting type)

TY-WK42PV4W



WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE


There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Safety Precautions

WARNING

Ensure that the installation location is strong enough to support long-term use.

- If its strength becomes insufficient over the course of long-term use, the plasma TV may drop, possibly causing injury.

Fitting work and connection equipment expansion should never be done by any other than a qualified installation specialist.

- Incorrect fitting may cause equipment to fall, resulting in injury.

Include a safety factor when considering the strength of the proposed fitting location.

- If strength is not sufficient the equipment may fall, resulting in injury.

When expanding connection equipment, be sure to prevent lock release. (See page 5 step-5)

- This may cause injury.

Do not fit at a location that cannot bear the load.

- If the fitting location lacks sufficient strength the equipment may fall.

Do not disassemble or modify the wall-hanging bracket.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

CAUTION

Do not use any television and displays other than those given in the catalogue.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

Do not fit at any locations subject to humidity, dust, smoke, steam or heat.

- This may have an adverse effect on the plasma TV and cause fire or electric shock.

The work of fitting or removing the plasma TV must be performed by at least two people.

- The plasma TV may fall and cause injury.

Do not fit facing upwards, sideways or upside down.

- This may cause heat to build up inside the plasma TV unit, resulting in a fire.

Provide spacing around the plasma TV of at least 10 cm to the top and right side, at least 30 cm to the left side, at least 6 cm to the bottom, leave a clearance between the rear panel and the wall.

- The plasma TV unit has air blow holes on the top, and air suction holes on the bottom and rear. Covering these may result in a fire.

Install the plasma TV by taking only the steps which are specified in these instructions: Do not install it in any other way.

- Otherwise the unit may be dropped and become damaged, and personal injury may result.

Install the mounting screws and power cable in such a way that they will not make contact with the inside parts of the wall.

- Electric shocks may result from contact with any metal objects inside the wall.

For installation, use the special-purpose constituent parts.

- Otherwise, the plasma TV may fall off the wall, possibly causing injury.

Remove the product that will not be used any longer.

- Otherwise the product may fall down and personal injury may result.

2 Specifications

Model Name	TY-WK42PV4W	Applicable models
Type	Plasma TV wall-hanging bracket (Vertical mounting type)	TH-37PX80
Dimensions	30 $\frac{33}{16}$ " (77.5 cm) (W) x 16 $\frac{11}{32}$ " (41.5 cm) (D) x 2 $\frac{9}{16}$ " (6.5 cm) (H)	TH-37PX88
Weight	14.1 lb (6.4 kg)	TH-42PZ80
Dimensions with Packaging	35 $\frac{15}{64}$ " (89.5 cm) (W) x 18 $\frac{5}{16}$ " (46.5 cm) (D) x 4 $\frac{3}{32}$ " (10.4 cm) (H)	TH-42PZ800
Weight with Packaging	19.84 lb (9 kg)	TH-42PZ85
Material	Steel (SGHC-F12)	TH-42PZ88
		TH-42PX80
		TH-46PZ80
		TH-46PZ800
		TH-46PZ85
		TH-46PZ88
		TH-50PZ80
		TH-50PZ800
		TH-50PX80

3 Disassembly and Assembly Instructions

3.1. Precautions for wall-hanging bracket fitting

Installation and removal work must be carried out only by a qualified technician.

If the unit is installed or removed improperly, the display may fall down and personal injury may result.

The wall-hanging bracket is for use in attaching a plasma TV unit to a vertical wall for viewing. Do not fit to any surface other than a vertical wall.

The equipment has a lock mechanism on the left side, so provide at least 300 mm of space from the wall surface.

To ensure correct plasma TV performance and prevent trouble, do not fit at any of the following locations.

- Near sprinklers or fire/smoke detectors
- Where there is a risk of exposure to vibration or impact
- Near high-voltage wires or dynamic power supplies
- Near sources of magnetism, heat, water vapor or soot
- Locations exposed to air blown from heating equipment
- Where droplets of condensation from an air conditioner or other unit may form.

Fit using techniques suited to the structure and materials of the fitting location.

Use commercially available screws with a nominal diameter of 6 mm that are suited to the wall material (wood, steel frame, concrete etc.) you are fitting the bracket to.

For the TV power supply plug, use a power supply outlet that can be reached easily.

Ensure good air flow so that the equipment ambient temperature does not exceed 40°C. Failure to do this may cause heat to build up inside the plasma TV, resulting in malfunction.

Spread a soft blanket or cloth over the floor so that the plasma TV and floor will not be marked or scratched during the assembly and installation work.

When screwing down the parts, ensure that the screws are neither insufficiently tightened nor over tightened.

Take sufficient care to ensure safety around you when performing the assembly and installation work or while moving about during the course of the work.

Do not install the Plasma TV underneath ceiling lamps (spotlights, halogen lamps, etc.). Otherwise, the cabinet may be bent or damaged by high heat.

3.2. Disassembly and Assembly Instructions

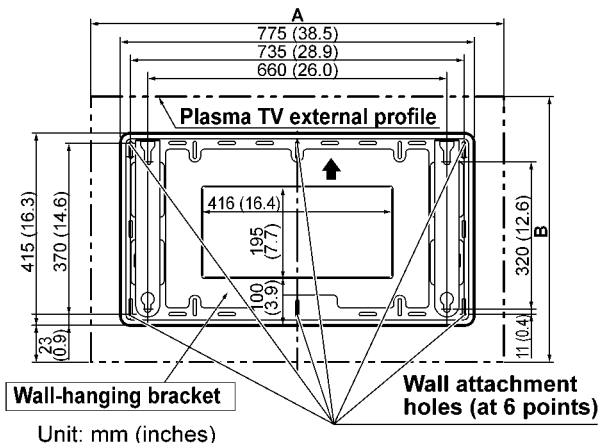
Please assemble and install the stand according to the following procedures.

1. Confirm the strength of the proposed fitting location.

- (1) The weight of the wall-hanging bracket is approximately 7 kg (15.4 lbs). For the weight of the plasma TV attached to the wall-hanging bracket, please see manual for the plasma TV.
- (2) Check the wall strength at the 6 attachment locations by referring to the dimension drawing of the wall-hanging bracket (given at right), and provide adequate reinforcement if strength is not sufficient.

Notes

- There are 22 holes in the wall-hanging bracket.
If the wall material is wood, and adequate attachment strength cannot be ensured by fastening at the 6 points at right, use as many spare holes as necessary. However, exercise care because some wall materials may crack if screws are located too close together.
The following dimensions are important. Do not fit at any location where these dimensions cannot be secured.
- For detailed dimensions for attaching the plasma TV, refer to the separate External Dimension Drawing.
- Do not attach or place anything other than the plasma TV on the bracket.



Unit: mm (inches)

* Be sure to fit screws and tighten securely.

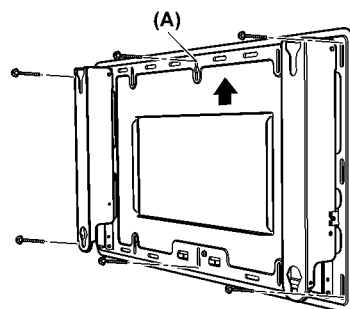
- * Provide spacing around the plasma TV of at least 10 cm (3.9) to the top and right side, at least 30 cm (11.8) to the left side, at least 6 cm (2.4) to the bottom, leave a clearance between the rear panel and the wall.

2. Fit wall-hanging bracket to wall.

- (1) Fit so that the arrow marks on the wall-hanging bracket point upward.
- (2) Fasten the screw at the top center hole (A) first.
- (3) Using a level, correct any bracket inclination, and then fasten screws at the remaining 5 locations.

Notes

- If the wall consists of a material such as concrete, and bolts or nuts must be embedded beforehand, determine the hole positions using the actual wall-hanging bracket, or calculate hole positions based on the dimension drawing and then embed bolts or nuts with a nominal diameter of 6 mm. When embedding bolts, locate so that the bolts protrude from the wall by 10 to 15 mm (25/64 to 19/32 inches).
- Use commercially available screws with a nominal diameter of 6 mm that are suited to the wall material you are fitting the bracket to.
- Always fix firmly more than 6 places with a screw.



3. Fit the insulation spacers to the plasma TV.

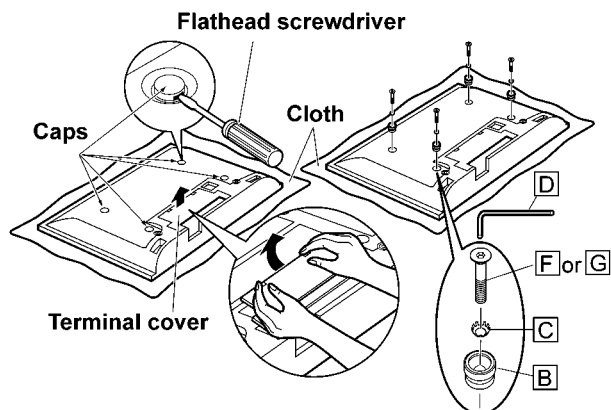
- (1) Place the plasma TV unit face down on a blanket or other soft cloth that is clean and free of debris, and follow the procedure below.
- (2) Remove terminal covers (if fitted) from the plasma TV.
- (3) Using a flathead screwdriver, remove the four caps from the plasma TV.

Note

- Carefully retain the removed terminal cover and caps in a safe place. (They will be needed again later should it be required to use the special-purpose stand or standalone stand.)
- (4) Using the included Allen wrench **D**, fit the included Allen head countersunk screws **F** or **G**, dished toothed washers **C** and insulation spacers **B** (4 sets) into the holes from where the caps were removed. (See the diagram at right.)
Refer to the Dimension chart for details on selecting the hexagon flat countersunk head screws **F** or **G**.

The bolt should be securely tightened to the torque given below.

(11 - 13 N•m)



4. Fit and fasten the plasma TV unit to the wall-hanging bracket.

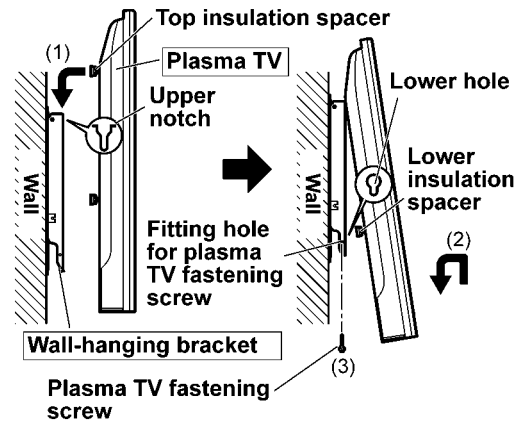
- (1) Locate the insulation spacers on the top of the plasma TV unit into the notch on the top of the wall-hanging bracket, and slide down.
- (2) Lift the plasma TV unit a little, insert the bottom insulation spacers into the holes on the bottom of the wall-hanging bracket, and slide the unit down.
- (3) Attach securely using the included unit fastening screws (1 each for left and right).

The bolt should be securely tightened to the torque given below.

(1.2 - 1.5 N·m)

Note

- Be sure to securely tighten the fastening screws to keep the plasma TV from becoming loose.

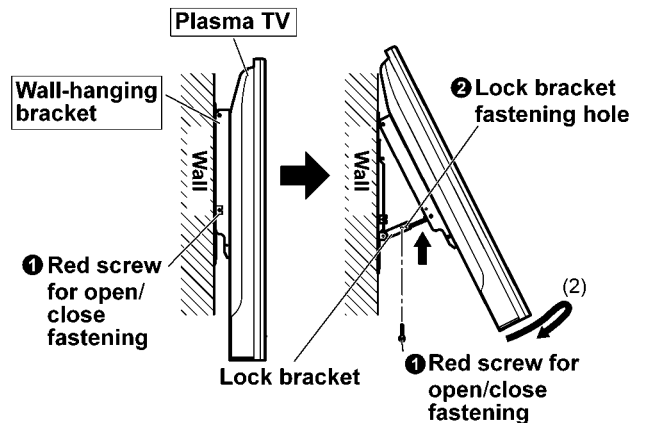


5. Preparation for wiring to equipment.

- (1) Remove the red screws for open/close fastening (one each on the left and right) ❶.
- (2) Raise the plasma TV towards yourself, as shown in the diagram at right, push up the lock bracket in the arrow direction (upward), check that the bracket has locked, and tentatively fasten. Securely fasten the red screw for open/close fastening (one screw on left side) ❶ to the lock bracket fastening hole ❷.
- (3) After the above preparation, wire to equipment.

The bolt should be securely tightened to the torque given below.

(1.2 - 1.5 N·m)



6. Fastening of wall-hanging bracket.

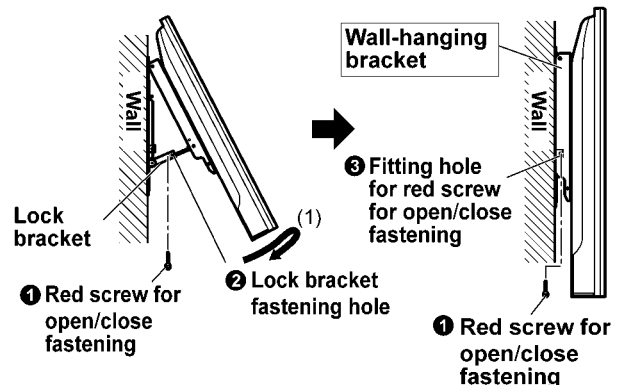
- (1) After wiring, remove the red screws for open/close fastening (used when making wiring connections), raise the plasma TV slightly, then slowly lower it back to the vertical position. The lock will release.
- (2) Securely fasten the red screws for open/close fastening (one each for the left and right brackets) ❶ tightly into the fitting holes for red screws for open/close fastening ❸ on either side of the wall hanging bracket.

The bolt should be securely tightened to the torque given below.

(1.2 - 1.5N·m)

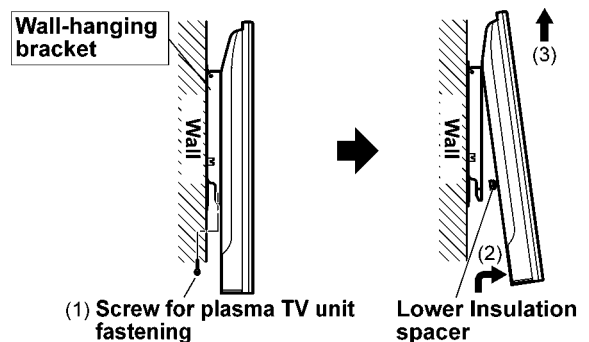
Notes

- Pull back the plasma TV unit slowly when you set up it at the original position.
- Be sure to always fit the red screws for open/close fastening ❶ in order to fasten the plasma TV.



7. Removal of plasma TV unit.

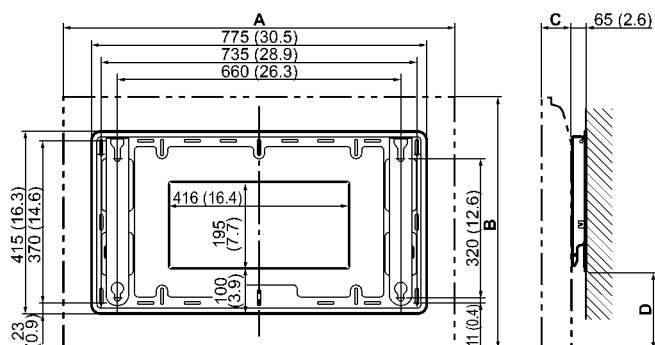
- (1) Remove the screws for unit fastening (1 each on the left and right) that are fitted to the wall-hanging bracket sides.
- (2) While lifting the bottom of the plasma TV unit, pull it towards yourself.
- (3) When the lower insulation spacers are freed, keep lifting upward.



4 Dimensions

Wall-hanging bracket (Vertical mounting type)

External dimensions drawing



(Unit : mm (inches))

Applicable models		A	B	C	D	F	G
						M8x60	M8x34
TH-37PX80B TH-37PV80P/EY TH-37PX80E		917 (36.1)	617 (24.3)	97 (3.8)	148 (5.8)	○	—
TH-37PX8B TH-37PX8E TH-37PV8P TH-37PX8EY TH-R37PV8	TH-R37PV8K TH-R37PV8KS TH-37PX8ES TH-H37X8	917 (36.1)	617 (24.3)	94 (3.7)	148 (5.8)	○	—
TH-42PZ800B TH-42PZ800E TH-42PY800P		1078 (42.4)	685 (27.0)	100 (3.9)	177 (7.0)	○	—
TH-42PZ85B TH-42PY85P TH-42PZ85E TH-R42PY85		1064 (41.9)	674 (26.5)	81 (3.1)	174 (6.9)	—	○
TH-42PZ85U TH-42PZ85X		1064 (41.9)	670 (26.4)	81 (3.1)	174 (6.9)	—	○
TH-42PZ80B TH-42PY80EY TH-42PZ80E TH-42PY80P TH-D42PS81E TH-D42PF82E TH-D42PN83E TH-D42PT84E TH-42PZ81B TH-42PZ81E TH-42PZ82B TH-42PZ82E TH-42PZ83E	TH-R42PY80 TH-R42PY80K TH-42PZ80U TH-42PZ8B/E TH-42PY8P/EY TH-R42PY80 TH-42PZ8ES TH-H42Z8 TH-P42PZ8ES TH-R42PY8 TH-R42PY8K TH-R42PY8KS TH-42PY8PY	1048 (41.3)	679 (26.7)	97 (3.8)	180 (7.1)	○	—
TH-42PX80U TH-42PX80X TH-42PX80B/E TH-42PV80P/EY	TH-R42PV80/K/KS TH-42PX82B TH-42PX82E TH-R42PV80KH	1020 (40.2)	679 (26.7)	97 (3.8)	180 (7.1)	○	—
TH-42PX8B/E TH-42PV8P/EY TH-R42PV8KH TH-R42PV8/K/KS	TH-42PX8ES TH-R42PV8 TH-H42X8 TH-42PV80P	1020 (40.2)	679 (26.7)	94 (3.7)	180 (7.1)	○	—
TH-46PZ85B TH-46PZ85E TH-46PY85P		1168 (46.0)	737 (29.0)	81 (3.1)	202 (8.0)	—	○
TH-46PZ85U		1168 (46.0)	734 (28.9)	81 (3.1)	204 (8.0)	—	○


Applicable models		A	B	C	D	F	G
						M8x60	M8x34
TH-46PZ80B TH-46PZ81B TH-46PZ80E TH-46PZ81E TH-46PY80P TH-46PZ82B TH-46PZ82E TH-46PZ83E	TH-46PZ80U TH-46PZ8B/E TH-46PY8P TH-R46PY80 TH-46PY8EY TH-R46PY8 TH-R46PY8K	1158 (45.6)	747 (29.4)	97 (3.8)	213 (8.4)	○	—
TH-50PZ800B TH-50PZ800E TH-50PY800P TH-R50PY800		1267 (49.9)	794 (31.3)	100 (3.9)	231 (9.1)	○	—
TH-50PZ85U TH-50PZ85X		1254 (49.4)	778 (30.6)	81 (3.2)	225 (8.9)	—	○
TH-50PZ80B TH-50PZ81B TH-50PY80EY TH-50PZ80E	TH-50PZ81E TH-50PY80P TH-R50PY80 TH-50PZ80U	1244 (49.0)	791(31.1)	97(3.8)	235 (9.3)	○	—
TH-50PX80U TH-50PX80X		1210 (47.6)	791(31.1)	97(3.8)	235 (9.3)	○	—
TH-50PX8B/E TH-50PV8P TH-R50PV8/K/KH		1210 (47.6)	791(31.1)	94 (3.7)	235 (9.3)	○	—

5 Requests regarding handling

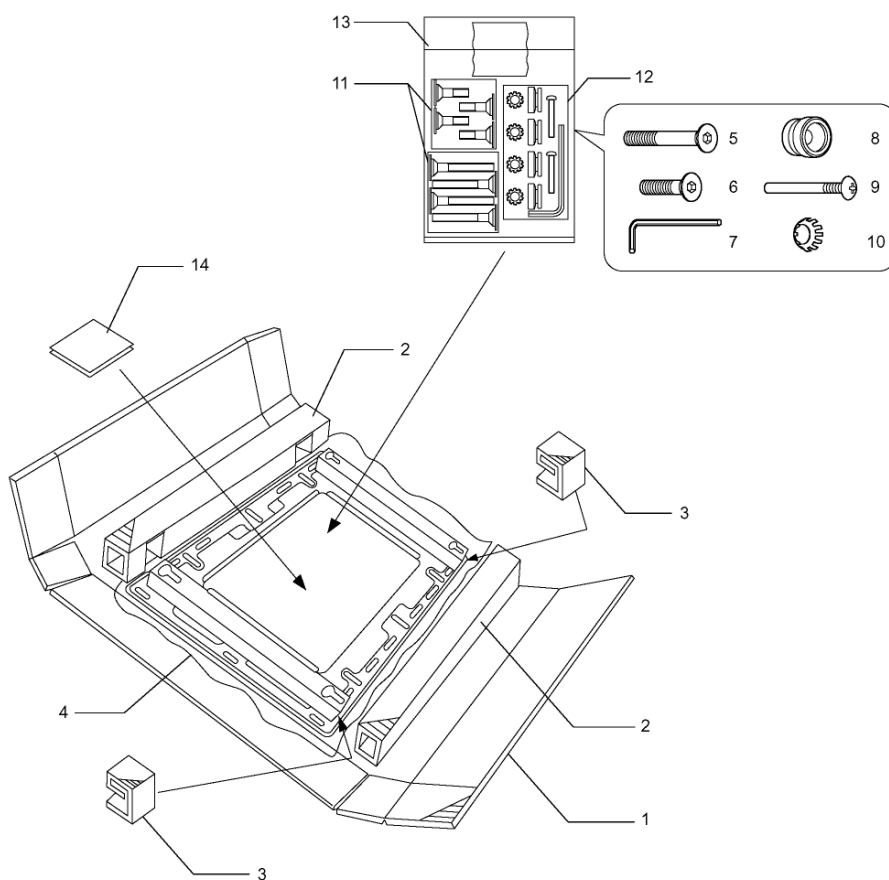
- 1) Exercise care when selecting the location for the TV because it may discolor or deform due to light or heat if it is placed where it is exposed to direct sunlight, or near a heater.
- 2) For cleaning, wipe the display using a soft dry cloth (made of cotton or flannel). If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of neutral detergent has been added, and then wipe with a dry cloth. Do not use products such as solvents, thinner or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- 3) Do not affix adhesive tape or stickers to the product. Doing so may dirty the surface of the wall-hanging bracket. Do not allow long-term contact with rubber, vinyl products or the like. (Doing so will cause deterioration.)
- 4) Take care during installation as shocks can cause 'panel cracks' to the plasma television unit.

Model No. : TY-WK42PV4W Important Safety Notice

Note: Important Safety Notice

Components identified by  mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Model No. : TY-WK42PV4W Packing Summary



Model No. : TY-WK42PV4W Parts List

Safety	Ref. No.	Part No.	Part Name & Description	Q'ty	Remarks
	1	TPCB48005A	CARTON BOX	1	
	2	TPDF1115	CUSHION (UP/BOTTOM)	2	
	3	TPDF1117	LOCK PARTS PROTECTION PAD	2	
	4	TPEH249	SET PROTECTION BAG	1	
	5	THEA195J	SCREW (M8X60)	4	
	6	THEA196J	SCREW (M8X34)	4	
	7	TKKX0010-1	ALLEN KEY	1	
	8	TMMX090	INSULATING SPACER	4	
	9	XSN5+35V	SCREW (M5X35)	2	
	10	XWC8DFJK	WASHER	4	
	11	XZB10X12C05	POLY BAG (SCREW)	2	
	12	XZB10X15C08	POLY BAG (PARTS)	1	
	13	XZB14X20C08	POLY BAG (PARTS ASSY)	1	
	14	TQZH997-1	INSTRUCTION SHEET	1	